

Application No.: 09/716,154

Docket No. CX098007

**AMENDMENTS TO THE SPECIFICATION**

Per the request of the Examiner, Applicant submits the following "Summary of the Invention" to be inserted in the existing Specification following the paragraphs entitled "2. Discussion of Related Art", and preceding the "Brief Description of the Drawing".

**Summary of the Invention**

The aforementioned limitations and drawbacks of previous remote control systems are overcome in accordance with the principles of this invention by an improved system, device and method providing initial ranging that dynamically adjusts the backoff window size used during a ranging and adjustment process to maximize the probability of successful outcomes during contention access. The invention takes a first system performance measurement using a first backoff window size, a second system performance measurement using a second backoff window size different than the first backoff window size, and then determines a third backoff window size based on the first and second system performance measurements. More specifically, the invention first provides ranging opportunities and specifies a first backoff window size for collision resolution, counts a first number of successful outcomes in a first sample of ranging opportunity slots, and determines a first probability of successful outcomes, provides additional ranging opportunities and specifies a second backoff window size for collision resolution, skips a number of ranging opportunity slots at least equal to the first backoff window size, counts a second number of successful outcomes in a second sample of ranging opportunity slots, and determines a second probability of successful outcomes. The invention then determines a ratio R, upon the basis of which a third backoff window size is selected. The ratio R is having a numerator equal to the second probability of successful outcomes minus the first probability of successful outcomes, and a denominator equal to the second backoff window size minus the first backoff window size.

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**CONCLUSION**

In view of the recent telephonic communication with the Examiner, it is believed that with the submission of this Amendment, the application in accordance for allowance, and such is respectfully requested from the Examiner.

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